

New Weather Bureau Publication

Manual of Barometry (WBAN), vol. I, U.S. Department of Commerce, U.S. Department of the Air Force, U.S. Department of the Navy, Washington, D.C., 1963, 935 pp. + index. For sale by Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402. Price: \$5.50

A manual which provides instructions to those concerned with various operational phases of *barometry*, and presents scientific and technical information pertinent to the subject in a rather broad sense. *Altimetry* is included in the work. The complete publication is being issued in two volumes with the following chapter headings

1. Introduction; Definitions; Elevations; Geopotential
2. Instruments for Determining Atmospheric Pressure; Their Installation and Characteristics
- A2. Miscellaneous Information; Types of Barometers; Handling of Mercury and Barometers; Transportation of Instruments
3. Gravity Correction for Mercury Barometers
4. "Removal Correction" and "Residual Correction"
5. Temperature Correction of Mercury Barometers
6. Standardization and Comparison of Barometers
7. Reduction of Pressure to Sea Level and Other Levels
8. Altimetry
9. Reduction to Constant Pressure Surfaces; Hypsometry
10. Special Potential or Other Functions Representing the Earth's Pressure Field
11. Atmospheric Pressure as Affected by Accelerations, Non-Static Conditions and Terrain
12. Appendixes (Theory and Technical Information)
13. Forms
14. Tables

Chapters 1 through 8 and 12 through 14 are included in the first volume. Volume II, to be published later, will contain chapters 9 through 11 and a complete index of both volumes.

This manual supersedes the pamphlet, now out of print, by C. F. Marvin, entitled "Barometers and the Measurement of Atmospheric Pressure", U.S. Weather Bureau, *Circular F*, which went through seven editions from its inception until its last printing in 1941.